

Patent Abstracts of Japan

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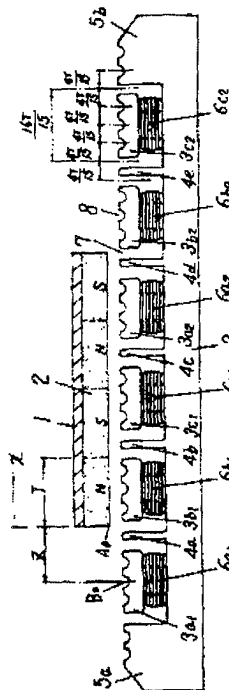
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TITLE : RECTILINEAR-MOVING ELECTRIC  
MACHINE



ABSTRACT : PURPOSE: To decrease cogging force and output ripple, by mounting an armature core in a shape that faces to a field magnet installed to a moving body, and by disposing auxiliary grooves to the salient-pole portions of the armature core while forming a plurality of auxiliary salient-poles.

CONSTITUTION: A field magnet 2 alternately magnetized to N, S poles is mounted to a moving body 1. An armature core 3 is arranged facing to the field magnet 2, and salient-poles 3a<sub>1</sub>-3c<sub>1</sub>, 3a<sub>2</sub>-3c<sub>2</sub> to which armature winding 6a<sub>1</sub>-6c<sub>1</sub>, 6a<sub>2</sub>-6c<sub>2</sub> are wound are installed. Auxiliary grooves 8 are made up to each salient-pole while auxiliary salient-poles 4a-4e, 5a, 5b are disposed at the fixed locations of the armature core, thus simultaneously diminishing output ripple with cogging force. Consequently, the vibration of a drive source and the unevenness of driving force can be minimized, and its performance can be improved.

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